

On page 8, line 19, after "Bus" insert --station--.

On page 11, line 1, change "Claims" to  
--What Is Claimed Is--.

**In The Claims:**

Please cancel original claims 1-9, without prejudice, and please cancel substitute claims 1-9, without prejudice, in the underlying PCT Application No. PCT/DE98/03074. Please also add the following new claims.

10. (New) A bus station for exchanging with other bus stations a communication including a data packet and transmission information, comprising:

an arrangement for providing position information with respect to each other bus station in relation to a sequence including the bus stations;

an arrangement for determining from the transmission information a position information on the one of the bus stations that is transmitting;

an arrangement for, on receiving the communication, determining a time slot belonging to one of the bus stations on the basis of the transmission information and the position information thereof; and

an arrangement for sending the communication including the data packet after the data packet is received, the communication being sent in a next time slot belonging to that bus station.

11. (New) The bus station according to claim 10, wherein:

the communication includes a direction vector indicating that a sequence will be run through in one of a first direction and a second direction that is opposite the first direction.

12. (New) The bus station according to claim 10, further comprising:

an arrangement capable of receiving another communication including another data packet of a data source; and

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an arrangement for sending, on receiving a communication from the data source, a communication with the other data packet to the other bus stations.

13. (New) The bus station according to claim 11, further comprising:  
 an arrangement, in transmitting the communication, for using the direction vector of the received communication;  
 an arrangement, after the communication has been sent, depending on the direction vector, for checking on whether another bus station has repeated the data packet sent in the communication; and

an arrangement for sending the communication again if no other bus station has repeated the sent data packet.

14. (New) The bus station according to claim 13, wherein:  
 when the direction vector is in the first direction, a repetition of the data packet is monitored; and  
 when the direction vector is in the second direction, the repetition of the data packet is not monitored.

15. (New) The bus station according to claim 14, further comprising:  
 an arrangement for sending a communication with the direction vector in the first direction when a communication is received from a data source.

16. (New) The bus station according to claim 11, further comprising:  
 an arrangement by which, when a communication is received from one of another bus station and a data source having a data packet, a communication having the direction vector in the second direction and the data packet of the received communication can be sent.

17. (New) The bus station according to claim 10, further comprising:  
 an arrangement by which, when a communication is received from one of another bus station and a data source having a data packet, a first communication

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having the same data packet and a direction vector in a first direction can be sent, and in a following time slot a second communication having the data packet of the received communication and the direction vector in a second direction can be sent.

18 (New) The bus station according to claim 10, further comprising:  
an arrangement by which, when a first communication including the data packet is received and a second communication is received after the first communication but before a sending of another communication containing the received data packet of the first communication, on the basis of the transmission information, a length of the data packet and a direction vector of a remaining residual transit time of the first and second communications can be calculated, and only the one of the first and second communications having a shorter remaining transit time is processed further.

In The Abstract:

Delete the present Abstract and in its place insert the following:

--Abstract Of The Disclosure

A bus station or a communication system is described, where the bus stations receive communications containing transmission information from which the position of the transmitting bus station in a sequence of bus stations can. A time slot for the bus station in which the bus station repeats the received communication is calculated from the transmission information and position information stored in the bus station indicating the position of the bus station in the sequence. These bus stations are especially suitable for data exchange by radio.--